| SECRET  OUT63556  966 NOW 9 20 237  SECRET  PASS TO SPO ATTN:  2162, 3 NOVEMBER 1967  1. SUBJECT: VALUE FUNCTION ANALYSIS 2. UNDERSTAND VERBEALLY FROM FODAY  2. UNDERSTAND VERBEALLY FROM FODAY  SESINES VALUE FUNCTION ANALYSIS AS PART OF NICE GILL EFFORT.  WESINES VALUE FUNCTION ANALYSIS AS PART OF NICE GILL EFFORT.  WESINES VALUE FUNCTION ANALYSIS AS PART OF NICE GILL EFFORT.  WESINES VALUE FUNCTION ANALYSIS AS PART OF NICE GILL EFFORT.  WESINES VALUE FUNCTION ANALYSIS AS PART OF NICE GILL EFFORT.  WESINES VALUE FUNCTION ANALYSIS AS PART OF NICE GILL EFFORT.  PROVIDING DATA MOTED IN REFERENCE BY TIME NEEDED.  4. 115-4 MANUE ACTURE PROVIDED  INDITED TO USE, FOR YOUR INFO IN PARA 6 BELOW.  5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH 115-4 MANU- ACTURER WITH RESULTANT SIGNIFICANT MATTER FURTHER WITH MATTER FURTHER WITH 115-4 MANU-  5. ADVISABLE WALL WAS AND WALL BE RECORD WITH SIGNIFICANT WAS AND WALL BE RECORD FOR THE SOLUTION WILL BE BASIS  FOR THE PERFORMANCE MATTER GROWN ILLIES FURTHER WILL WAS AND Y HERE CANDON BOUNDARY LAFER (GAUSSIAN)  SIGNA EQUALS SALVE WAS AND THE SCOULD OF THE STREAM TO GROWND DENSITY  OF AIR, M EQUALS  | Approved Fo             | r Release 2008/03/18 | : CIA-RDP78B0 | 3817A00030 | 0020065-9      | )                                       |   |
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| SECRET  SECRET  211. SUBJECT: VALUE FUNCTION ANALYSIS  2. UNDERSTAND VERBALLY FROM  22. UNDERSTAND VERBALLY FROM  22. UNDERSTAND VERBALLY FROM  23. HOWEVER, GUERY TO 115-4 MANUFACTUREP INDICATES POSSIBILITY  DESTRES VALUE FUNCTION ANALYSIS AS PART OF NICE GIRL EFFORT.  RUSSEQUENT WORK LISING_THIS TECHNIQUE WOULD BE SEPARATE ACTIVITY  TO SUPPORT  1. SUBJECT: VALUE FUNCTION IN HIS LISTER OF 13 OCTOBER.  2. UNDERSTAND VERBALLY FROM  2. UNDERSTAND VERBALLY FROM  2. UNDERSTAND VERBALLY FROM  3. HOWEVER, GUERY TO 115-4 MANUFACTUREP INDICATES POSSIBILITY  PROVIDING DATA NOTION  3. HOWEVER, GUERY TO 115-4 MANUFACTUREP INDICATES POSSIBILITY  PROVIDING DATA NOTION  5. ADVISABILITY OF PURSUING MATTER FURTHER VITH 115-4 MANUFACTUREN INFO IN PART A SECURIOR AND COST EXPENDITURES  SERIOR SESSIBLITY OF PURSUING MATTER FURTHER VITH 115-4 MANUFACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  5. ADVISABILITY OF PURSUING MATTER FURTHER VITH 115-4 MANUFACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  6. INFUL PARAMETERS REFERENCED IN PART A BOUGE.  A. AVERAGE TARGET REHENDES GOM FOOT LAMBERTS  B. TRI-PAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).  C. FILTER FACTOR (WRATTEN 12) EQUALS SECS  T EQUALS APCROSER TIME SECONDS  PEQUALS AVERGE SCHEE BRIGHTHESS FOR BLACKBODY  RADIATION AT 6000 N DEORRES  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404)  T EQUALS AVERGE SCHEE BRIGHTHESS FOR BLACKBODY  RADIATION AT 6000 N DEORRES  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404)  T EQUALS AVERGE SCHEE BRIGHTHESS FOR BLACKBODY  AVERGE EXPOSURE EQUALS 0.139 MITER CONDUCTION VILL BE BAS  F. P. DLYCHROMATIC OPTICAL TRANSFER FUNCTION VILL BE BAS  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  ESTATED AS THE GEOMETRIC MEAN OF THE RESOLUTION NILL BE USED.  G. VINDOW BOUNDARY LAYER (GAUSSIAN)  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  G. WINDOW BOUNDAY HAVER (GAUSSIAN)  G. WINDOW BOUNDAY LAYER (GAUSSIAN)  G. WINDOW BOUNDAY LAYER (GA |                         | <b>SECRET</b>        |               |            | IMME           | DIATE                                   |   |
| SECRET  SECRET  211. SUBJECT: VALUE FUNCTION ANALYSIS  2. UNDERSTAND VERBALLY FROM  22. UNDERSTAND VERBALLY FROM  22. UNDERSTAND VERBALLY FROM  23. HOWEVER, GUERY TO 115-4 MANUFACTUREP INDICATES POSSIBILITY  DESTRES VALUE FUNCTION ANALYSIS AS PART OF NICE GIRL EFFORT.  RUSSEQUENT WORK LISING_THIS TECHNIQUE WOULD BE SEPARATE ACTIVITY  TO SUPPORT  1. SUBJECT: VALUE FUNCTION IN HIS LISTER OF 13 OCTOBER.  2. UNDERSTAND VERBALLY FROM  2. UNDERSTAND VERBALLY FROM  2. UNDERSTAND VERBALLY FROM  3. HOWEVER, GUERY TO 115-4 MANUFACTUREP INDICATES POSSIBILITY  PROVIDING DATA NOTION  3. HOWEVER, GUERY TO 115-4 MANUFACTUREP INDICATES POSSIBILITY  PROVIDING DATA NOTION  5. ADVISABILITY OF PURSUING MATTER FURTHER VITH 115-4 MANUFACTUREN INFO IN PART A SECURIOR AND COST EXPENDITURES  SERIOR SESSIBLITY OF PURSUING MATTER FURTHER VITH 115-4 MANUFACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  5. ADVISABILITY OF PURSUING MATTER FURTHER VITH 115-4 MANUFACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  6. INFUL PARAMETERS REFERENCED IN PART A BOUGE.  A. AVERAGE TARGET REHENDES GOM FOOT LAMBERTS  B. TRI-PAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).  C. FILTER FACTOR (WRATTEN 12) EQUALS SECS  T EQUALS APCROSER TIME SECONDS  PEQUALS AVERGE SCHEE BRIGHTHESS FOR BLACKBODY  RADIATION AT 6000 N DEORRES  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404)  T EQUALS AVERGE SCHEE BRIGHTHESS FOR BLACKBODY  RADIATION AT 6000 N DEORRES  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404)  T EQUALS AVERGE SCHEE BRIGHTHESS FOR BLACKBODY  AVERGE EXPOSURE EQUALS 0.139 MITER CONDUCTION VILL BE BAS  F. P. DLYCHROMATIC OPTICAL TRANSFER FUNCTION VILL BE BAS  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  ESTATED AS THE GEOMETRIC MEAN OF THE RESOLUTION NILL BE USED.  G. VINDOW BOUNDARY LAYER (GAUSSIAN)  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  G. WINDOW BOUNDAY HAVER (GAUSSIAN)  G. WINDOW BOUNDAY LAYER (GAUSSIAN)  G. WINDOW BOUNDAY LAYER (GA | <i>;</i>                | ** * <del>*</del>    |               | فأيصد      | 0.17           |   |   |
| PASS TO SPO ATTN.  REF 2162, 3 NOVEMBER 1967  1. SUBJECT: VALUE FUNCTION AMALYSIS  2. WINDERSTAND VERBALLY FROM  MINISTROUBLE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT.  MINISTROUBLE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT.  MINISTROUBLE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT.  MINISTROUBLE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT.  MINISTROUBLE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT.  J. SUBJECT: VALUE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT.  MINISTROUBLE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT.  J. SUBJECT: VALUE FUNCTION AMALYSIS AS PART OF NICE CIPIL FOR THE PART AMELY AMALYSIS AS PART OF NICE CIPIL FOR THE PART AMELY SAME AMALYSIS.  J. SUBJECT: VALUE FUNCTION AMALYSIS AS PART OF NICE CIPIL EFFORT AMALYSIS AS PART OF NICE CIPIL FUNCTION.  J. AMALYS FOR PART OF NICE CIPIL AMALYSIS AS PART OF NICE CIPIL AMALYSIS  |                         |                      |               |            | 0016           | 63556                                   |   |
| PASS TO SPO ATTN:  1. SUBJECT: VALUE FUNCTION ANALYSIS 2. UNDERSTAND VERBALLY FROM 2. UNDERSTAND VERBALLY FROM 2. UNDERSTAND VERBALLY FROM 3. POSSIBLE VERBALLY FROM 3. SUBGESTION IN MISSIS AS PART OF NICE GIRL EFFORT.  RESEQUENT WORK HISING THIS TECHNIQUE WOULD BE SEPARATE ACTIVITY 10 SUPPORT 2. SUBGESTION IN MIS LETTER OF 13 OCTOBER.  2. AUNCER, QUERY TO 115-A MANUFACTURER INDICATES POSSIBILITY 2. AUNCER, QUERY TO 115-A MANUFACTURER INDICATES POSSIBILITY 3. HOWEVER, QUERY TO 115-A MANUFACTURER INDICATES POSSIBILITY 4. 115-A MANUFACTURER PROVIDED INPUT PARMETERS THEY NITEND TO USE, FOR YOUR INFO IN PARA 6 BELOW. 5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-A MANU- ACTURER WITH RESULTANT SIGNIFICANT MARPOWER AND COST EXPROITURES 3. POUR SHELT ON AVAILABILTY OF SIMILAR INFO AND DATA ACTURERS. CHARGE STEPS FROM MATTER FROM THE NEW TO AND DATA ACTURERS. CHARGE STEPS FROM STRILL CAMERA MANU- ACTURER WITH RESULTANT SIGNIFICANT MARPOWER AND COST EXPROITURES 3. AUNCEAGE TARGET BRIGHTNESS GOG FOOT LAMBERTS 6. INPUTE ARAMMETERS FFFERENCE IN PARAMETERS FROM STRILL CAMERA MANU- 6. INPUTE ACTOR (WRAITEN 12) EQUALS 1.5  1. RUNGER ACTION OF RESOLVABLE FOR THE SECONDS 1. TEQUALS FILTER FACTOR 1. SUBJECT OF THE OPTICAL SYSTEM.  2. FURLES FROM STRILL ENDOS OF THE OPTICAL SYSTEM.  3. AUNCEAGE TO THE MEXPOSURE TIME SECONDS 4. ORGAN 4. TEQUALS T NUMBER FOR THE OPTICAL SYSTEM.  4. AUNCEAGE SCENE BRIGHTNESS FOR BLACKBODY 5. AUNCEAGE MALYSIS. ALL ERRORS TWO SIGNA VALUES.  5. AUNCEAGE MALYSIS. ALL ERRORS TWO SIGNA VALUES.  6. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS SECONDS.  6. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS SECONDS.  6. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS SECONDS.  6. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS SECONDS.  7. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS SECONDS.  6. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE SECONDS.  7. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE SECONDS.  8. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE SECONDS.  8. POLY |                         |                      |               | 1967 NOV   | 9 20           | 23 <b>Z</b>                             |   |
| PASS TO SPO ATTN:    SUBJECT: VALUE FUNCTION ANALYSIS   2. UNDERSTAND VERBALLY FROM   100AY   NO LONGER   2. UNDERSTAND VORK USING THIS TECHNICATES OF NICE GIRL EFFORT.   2. UNDERSTAND VORK USING THIS TECHNICATES OF NICE GIRL EFFORT.   2. UNDERSTAND VORK USING ACCORDINGLY.   3. HOWEVER, QUERY TO 115-A MANUFACTURER PROVIDED   INPUT PARAMETERS THEY   1. UNDERSTAND   1. UN | SECRET                  |                      | 211           |            |                |   |   |
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| 2. UNDERSTAND VERBALLY FRON ESIRES VALUE FUNCTION ANALYSIS AS PART OF NICE GIRL EFFORT.  WISEGUENT WORK HISING THIS TECHNIQUE WOULD BE SEPARATE ACTIVITY TO SUPPORT I SUGGESTION IN HIS LETTER OF 13 OCTOBER.  3. HOWEVER, QUERY TO 115-A MANUFACTURER INDICATES POSSIBILITY F PROVIDING DATA NOTED IN REFERENCE BY TIME NEEDED.  4. 115-A MANUFACTURER PROVIDED  INFUN TO USE, FOR YOUR INFO IN PARA 6 BELOW.  5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-A MANU- ACTURER WITH RESULTANT SIGNIFICANT MANPOWER AND COST EXPENDITURES BERNDS TO LARGE EXTRIN ON AVAILABILTY OF SIMILAR INFO AND DATA SING ESSENTIALLY SAME INPUT PARAMETERS FROM SR-71 CAMERA MANU- ACTURER WITH PARAMETERS REFERENCED IN PARA 4 ABOVE:  A. AVERAGE TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).  C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5  D. EXPOSURE TIME I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS SECS  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404) I TEQUALS FILM EXPOSURE INDEX EXPOSURE INDEX EXPOSURE INDEX EXPOSURE INDEX EXP |                         | VEMBER 1967          |               |            |                |   |   |
| USSEQUENT WORK HISING THIS TECHNIQUE WOULD BE SEPARATE ACTIVITY O SUPPORT SUGGESTION IN HIS LETTER OF 13 COTOBER. 3. HOWEVER, QUERY TO 115-A MANUFACTURER INDICATES POSSIBILITY F PROVIDING DATA NOTED IN REFERENCE BY TIME NEEDED. 4. 115-A MANUFACTURER PROVIDED NITEND TO USE, FOR YOUR INFO IN PARA 6 BELOW. 5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-A MANU-ACTURER WITH PROVIDED IN PER FURTHER WITH 115-A MANU-ACTURER WITH RESULTANT SIGNIFICANT MANPOWER AND COST EXPENDITURES FERNDS TO LARGE EXTENT ON AVAILABILITY OF SIMILAR INFO AND DATA ACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME? 6. INFUT PARAMETERS REFERENCED IN PARA 4 ABOVE: A. AVERAGE TARGET BRIGHTNESS 600 TOOT LAMBERTS B. TRI-BAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL). C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5 D. EXPOSURE TIME T EQUALS FILTER FACTOR BEQUALS FILTER FACTOR BEQUALS AVERAGE SCENE BRIGHTNESS FOR BLACKBODY RADIATION AT 6000 K DEGREES EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) T EQUALS TOWER EQUALS 0.139 METER CANDLE SECONDS PEQUALS THE EXPOSURE FINE SECONDS PAD 0.030 AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION VILL BE BAS TO 0.046 150 AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION VILL BE BAS FOR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES. SOLUTION (N. SPATIAL FREQUENCY IN LINES PER MILITERETE VILL ESTATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y EXCENTION OF THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES. SOLUTION (N. SPATIAL FREQUENCY IN LINES PER MILITER FER VILL ESTATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  SIGN EQUALS 83.3X (10 TO THE MINUS 6) DI 0.2 MXM/DO (1 PLUS 0.28XM) RADIANS (CUPERSONIC)  DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM. SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE  | 2. UNDERSTAND VERBA     | LLY FROM             | YAGOT         |            |                |   | 2 |
| LEASE BE GUIDED ACCORDINGLY.  3. HOWEVER, QUERY TO 115-A MANUFACTURER INDICATES POSSIBILITY F PROVIDING DATA NOTED IN REFERENCE BY TIME NEEDED.  4. 115-A MANUFACTURER PROVIDED INPUT PARAMETERS THEY NTEND TO USE, FOR YOUR INFO IN PARA & BELOW.  5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-A MANU- ACTURER WITH RESULTANT SIGNIFICANT MANPOWER AND COST EXPENDITURES EFFENDS TO LARGE EXTENT ON AVAILABILTY OF SIMILAR INFO AND DATA SING ESSENTIALLY SAME INPUT PARAMETERS FROM SR-71 CAMERA WANNI- ACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME? 6. INPUT PARAMETERS REFERENCED IN PARA 4 ABOVE: A. AVERAGE TARGET BRIGHTNESS 600 FOOT LAMBERTS B. TRI-BAR TARGET BRIGHTNESS 600 FOOT LAMBERTS B. THI-BAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).  C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5  D. EXPROSURE TIME SECONDS P EQUALS FILTER FACTOR B EQUALS AVERAGE SCENE BRIGHTNESS FOR BLACKBODY RADIATION AT 6000 K DEGREES EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) T EQUALS T NUMBER FOR THE OPTICAL SYSTEM.  E. AIM CURVE SPATIAL FREQUENCY SPATIAL FREQUENCY RESOLVABLE MODULATION AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS, 70 200 AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS, 100 AVERAGE EXPOSURE  | SUBSEQUENT WORK HSING T | HIS TECHNIQUE W      | OULD BE SEF   | ARATE ACT  | IVITY          |   |   |
| A. 115-A MANUFACTURER PROVIDED INPUT PARAMETERS THEY  NIEND TO USE, FOR YOUR INFO IN PARA 6 BELOW.  5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-A MANU- ACTURER WITH RESULTANT SIGNIFICANT MANPOWER AND COST EXPENDITURES  EPENDS TO LARGE EXTENT ON AVAILABILITY OF SIMILAR INFO AND DATA  SING ESSENTIALLY SAME INPUT PARAMETERS FROM SET IC CAMERA MANU- ACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  6. INPUT PARAMETERS REFERENCED IN PARA 4 ABOVE:  A. AVERAGE TARGET ENIGHTNESS 600 FOOT LAMBERTS  B. TRI-BAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).  C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5  D. EXPOSURE TIME  T EQUALS 4P(T)SQ/(10.76) (B) (2EI) EQUALS SECS  T EQUALS FILTER FACTOR  B EQUALS FILTER FACTOR  B EQUALS FILTER FACTOR  B EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404)  T EQUALS TO NUMBER FOR THE OPTICAL SYSTEM.  E. AIM CURVE  SPATIAL FREQUENCY  RESOLVABLE MODULATION  AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS 150  AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS 150  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  SEOLUTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL  ESTATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y  RECTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY  EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO  (1 PLUS 0.2MXM) RADIANS (CUPERSONIC)  DI /DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY  OF AIR. M EQUALS MACH NO.  H. VEHICLE VIERTION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BCOK.  (AVAILABLE)  SECTION 1.2.2, PAGE 2  | LEASE BE GUIDED ACCORD  | INGLY.               |               |            |                | ,                                       |   |
| NTEND TO USE, FOR YOUR INFO IN PARA 6 BELOW.  5. ADVISABILITY OF PURSUING MATTER FURTHER WITH 115-A MANUACTURER WITH RESULTANT SIGNIFICANT MANPOWER AND COST EXPENDITURES EPENDS TO LARGE EXTENT ON AVAILABILITY OF SIMILAR INFO AND DATA SING ESSENTIALLY SAME INPUT PARAMETERS FROM SR-71 CAMERA MANUACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  6. INPUT PARAMETERS REFERENCED IN PARA 4 ABOVE:  A. AVERAGE TARGET ENIGHTNESS 600 FOOT LAMBERTS  B. TRI-BAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).  C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5  D. EXPOSURE ITME  T EQUALS AP(T)SQ/(10.76) (E) (2E) EQUALS SECS  T EQUALS FALTER FACTOR  B EQUALS FILTER FACTOR  B EQUALS FILTER FACTOR  B EQUALS FILTER FACTOR  B EQUALS TIME EXPOSURE INDEX EQUALS 3.6 (EX 3404)  T EQUALS TO NUMBER FOR THE OPTICAL SYSTEM.  E. AIM CURVE  SPATIAL FREQUENCY  RESOLVABLE MODULATION  50  AVERAGE EXPOSURE EQUALS 0.135 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS 1.107  AVERAGE EXPOSURE EQUALS 0.135 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS 1.107  AVERAGE EXPOSURE EQUALS 0.135 METER CANDLE SECONDS.  F. POLYCHROMATIC METHOD OF COMPUTATION WILL BE BAS 1.107  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  SEOULUTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL BE STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y INTECTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS RATIO OF FREE STREAM TO GROUND DENSITY OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE SECTION 1.2.2, PAGE 2   | F PROVIDING DATA NOTED  | IN REFERENCE B       | Y TIME NEED   | ED.        |                |   |   |
| ACTURER WITH RESULTANT SIGNIFICANT MANPOWER AND COST EXPENDITURES  EPENDS TO LARGE EXTENT ON AVAILABILTY OF SIMILAR INPO AND DATA  SING ESSENTIALLY SAME INPUT PARAMETERS FROM SR-71 CAMERA MANU-  ACTURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  6. INPUT PARAMETERS REFERENCED IN PARA 4 ABOVE:  A. AVERAGE TARGET BRIGHTNESS 600 FOOT LAMBERTS  B. TRI-BAR TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL).  C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5  D. EXPOSURE TIME  T EQUALS 4P(T)SQ/(10.76) (B) (2EI) EQUALS SECS  T EQUALS FILME SECONDS  P EQUALS FILME FACTOR  B EQUALS AVERAGE SCENE BRIGHTNESS FOR BLACKBODY  RADIATION AT 6000 K DEGREES  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EX 3404)  T EQUALS T NUMBER FOR THE OPTICAL SYSTEM.  E. AIM CURVE  SPATIAL FREQUENCY  RESOLVABLE MODULATION  50  AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  ESCALUTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL  ES TATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y  IRECTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY  EVEL . A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO  (1 PLUS 0.2PXM) RADIANS (SUPERSONIC)  DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY  OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE)  SECTION 1.2.2, PAGE 2   | NTEND TO USE, FOR YOUR  | INFO IN PARA 6       | BELOW.        |            |                |   |   |
| SING ESSENTIALLY SAME INPUT PARAMETERS FROM SR-71 CAMERA MANUACATURERS. CAN YOU ADVISE PROSPECTS AT THIS TIME?  6. INPUT PARAMETERS REFERENCED IN PARA 4 ABOVE: A. AVERAGE TARGET CONTRAST 2:1 (AT ENTRANCE PUPIL). C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5 D. EXPOSURE TIME T EQUALS AP(T)SQ/(10.76) (B) (2EI) EQUALS SECS T EQUALS EXPOSURE TIME SECONDS P EQUALS FILTER FACTOR B EQUALS FILME EXPOSURE TIME SECONDS FI EQUALS FILME EXPOSURE TIME SECONDS EI EQUALS FILME EXPOSURE INDEX EQUALS 3.6 (EK 3404) T EQUALS IN NUMBER FOR THE OPTICAL SYSTEM. E. AIM CURVE SPATIAL FREQUENCY RESOLVABLE MODULATION 50 020 020 100 0406 150 0406 1 | ACTURER WITH RESULTANT  | SIGNIFICANT MA       | NPOWER AND    | COST EXPE  | NDITURE        | :s                                      |   |
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| C. FILTER FACTOR (WRATTEN 12) EQUALS 1.5  D. EXPOSURE TIME  T EQUALS 4P(T)SQ/(10.76) (E) (2EI) EQUALS SECS  T EQUALS EXPOSURE TIME SECONDS  P EQUALS FILTER FACTOR  B EQUALS AVERAGE SCENE BRIGHTNESS FOR BLACKBODY  RADIATION AT 6000 K DEGREES  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404)  T EQUALS T NUMBER FOR THE OPTICAL SYSTEM.  E. AIM CURVE  SPATIAL FREQUENCY  RESOLVABLE MODULATION  50  100  100  100  AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  ESCHUTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL  ESTATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y  IRECTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY  EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO  (1 PLUS 0.2MXM) RADIANS (SUPERSONIC)  DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY  OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE)  SECTION 1.2.2, PAGE 2   | A. AVERAGE TARGET       | BRIGHTNESS 600       | FOOT LAMBE    | RTS        |                |   |   |
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| T EQUALS EXPOSURE TIME SECONDS P EQUALS FILTER FACTOR B EQUALS AVERAGE SCENE BRIGHTNESS FOR BLACKBODY RADIATION AT 6000 K DEGREES EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404) T EQUALS T NUMBER FOR THE OPTICAL SYSTEM.  E. AIM CURVE SPATIAL FREQUENCY RESOLVABLE MODULATION  50 70 0020 70 0046 150 200 100 0150 0150 0170 AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS. F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS CSTATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y BE STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y BE STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y BE STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y BE STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y BE STATED AS THE GEOMETRIC MEAN OF THE PSO PERCENT PROBABILITY EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN) SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO (1 PLUS 0.2MXM) RADIANS (SUPERSONIC) DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM. SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK. (AVAILABLE SECTION 1.2.2, PAGE 2   | D. EXPOSURE TIME        |                      |               | c crec     |                | 05                                      |   |
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| RADIATION AT 6000 K DEGREES  EI EQUALS FILM EXPOSURE INDEX EQUALS 3.6 (EK 3404)  T EQUALS T NUMBER FOR THE OPTICAL SYSTEM.  E. AIM CURVE  SPATIAL FREQUENCY  RESOLVABLE MODULATION  100  100  020  70  020  100  AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  ESOLUTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL  E STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y  IRRCTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY  EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO  (1 PLUS 0.2MXM) RADIANS (SUPERSONIC)  DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY  OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE SECTION 1.2.2, PAGE 2   |                         |                      | NECC FOD DI   | ACKBUDA    |                |   |   |
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| SPATIAL FREQUENCY  50  70  70  8030  100  8046  150  200  AVERAGE EXPOSURE EQUALS 0.139 METER CANDLE SECONDS.  F. POLYCHROMATIC OPTICAL TRANSFER FUNCTION WILL BE BAS  OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  ESCLUTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL  ESCLUTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY  EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO  (1 PLUS 0.2MXM) RADIANS (SUPERSONIC)  DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY  OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE)  SECTION 1.2.2, PAGE 2   |                         | BER FOR THE OPT      | ICAL SYSTEM   | •          |                |   |   |
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| OR THE PERFORMANCE ANALYSIS. ALL ERRORS TWO SIGMA VALUES.  ESOLUTION (K, SPATIAL FREQUENCY IN LINES PER MILLIMETER) WILL  E STATED AS THE GEOMETRIC MEAN OF THE RESOLUTIONS IN THE X AND Y  IRECTIONS AND WILL BE REPORTED FOR THE 96 PERCENT PROBABILITY  EVEL. A MONTE CARLO METHOD OF COMPUTATION WILL BE USED.  G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO  (1 PLUS 0.2MXM) RADIANS (SUPERSONIC)  DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY  OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE SECTION 1.2.2, PAGE 2   | AVERAGE EXPOSU          | RE EQUALS Ø.139      | METER CAND    | LE SECOND  | S              |   |   |
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| G. WINDOW BOUNDARY LAYER (GAUSSIAN)  SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO  (1 PLUS 0.2MXM) RADIANS (SUPERSONIC)  DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY  OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE SECTION 1.2.2, PAGE 2   |                         |                      |               |            | LITY           |   |   |
| SIGMA EQUALS 83.3X(10 TO THE MINUS 6) DI 0.2 MXM/DO (1 PLUS 0.2MXM) RADIANS (SUPERSONIC) DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY OF AIR. M EQUALS MACH NO. H. VEHICLE VIBRATION SPECTRUM. SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK. (AVAILABLE SECTION 1.2.2, PAGE 2  |                         |                      |               | DE USED.   |                |   |   |
| (1 PLUS Ø.2MXM) RADIANS (SUPERSONIC) DI/DO EQUALS RATIO OF FREE STREAM TO GROUND DENSITY OF AIR. M EQUALS MACH NO. H. VEHICLE VIBRATION SPECTRUM. SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK. (AVAILABLE SECTION 1.2.2, PAGE 2  | SIGMA EQUALS 8          | 3.3X (10 TO THE      | MINUS 6) DI   | 0.2 MXM/   | DO             |   |   |
| OF AIR. M EQUALS MACH NO.  H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE SECTION 1.2.2, PAGE 2  SECTION 1.2.2, PAGE 2  SECTION 1.2.2, PAGE 2  | (1 PLUS Ø.2MXM          | ) RADIANS (SUPE      | RSONIC)       |            |                |   |   |
| H. VEHICLE VIBRATION SPECTRUM.  SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE SECTION 1.2.2, PAGE 2  SFIRT  Excluded from automatic flowing and flowi |                         |                      | REAM TO GRO   | UND DENSI  | TY             |   |   |
| SPECTRUM IN ACCORDANCE WITH TYPE I SPEC. BOOK.  (AVAILABLE SECTION 1.2.2, PAGE 2  SFIRIT  SFIRIT  Excluded from automatic flowing and formula and form | OF AIR. M EQU           | ALS MACH NO.         |               |            |                |   |   |
| (AVAILABLE SECTION 1.2.2, PAGE 2  SFIRT  SFIRT  SECTION 1.2.2, PAGE 2  Excluded from automatic flowing and formation and flowing and flowi | SPECTRUM IN AC          | CORDANCE WITH T'     | PE I SPEC.    | воок.      |                |   |   |
| SFIRFT Excluded from automatic   |                         |                      |               |            |                |   |   |
| SFIRFT Excluded from automatic   |                         |                      |               |            | ***            | Table .                                 |   |
| No Fig. 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |                         | <b>.</b>             |               |            | f.             |   |   |
|  |                         | SECRET               |               | ŝ          | ľ              | sowngrading and                         |   |

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I. VEHICLE ATTITUDE AND RATE ERROR (FOR STRAIGHT AND LEVEL FLIGHT AND COORDINATED TURNS).
PITCH PLUS OR MINUS 15 MIN.
ROLL PLUS OR MINUS 15 MIN.
AZIMUTH PLUS OR MINUS 23 MIN.
ANGULAR PETURBATIONS

RATE PERIOD MAX AMPL
PITCH 6-11 MR/SEC 3-5 SEC 0.286 DEG
ROLL 3-5 MR/SEC 6-10 SEC 0.286 DEG
YAW 0.8-1.2 MR/SEC N 6-12 SEC 0.071 DEG

0.8-1.2 MR/SEC N 6-10 SEC 0.071 DEG

J. VEHICLE TURN RATE AND ALTITUDE TURN RATE EQUALS 0.00763
RAD/SEC
ALTITUDE EQUALS 78000 FEET
(BANK ANGLE EQUALS 35 DEG.)

SECRET

-- END OF MESSAGE --

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